LOCKHEED AIRCRAFT CORP.	ENGINEERING STUDY ☐ CHANGE PROPOSAL [X]	LAC - 167
DATE 20 SEPTEMBER 1963	AFFECTS: WSPO ☐	PROJECT [X]

NAME OF MAJOR COMPONENT	PART OR LOWEST SUBASSEMBLY	PART NO. & MODEL OR TYPE

TITLE OF PROPOSAL : SYST. 15 ANTENNA ISOLATION IMPROVEMENT

NATURE OF PROPOSAL :

SEE PAGE 2

REASON FOR PROPOSAL :

SEE PAGE 2

ES	ESTIMATED COST AND TIME INVOLVED :	
	ADDITIONAL FUNDING REQUIRED :	
CP	ESTIMATED COST FOR KITS OR PARTS :	25X1
	ADDITIONAL FUNDING REQUIRED : None SP-1922	

ITEMS AFFECTED BY PROPOSAL :

SAFETY	MISSION EFFEC-TIVENESS	PERFORM-ANCE	OPERATING PROCEDURE	INTER-CHANGE-ABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTE-NANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTE-NANCE MANUAL
☐	[X]	☐	☐	☐	☐	☐	☐	☐	☐	☐

EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD

STAT

SOURCE OF PARTS FOR KIT	AVAILABILITY 9 WEEKS AFTER APPROVAL
LAC	

DISPOSITION OF SPARES AFFECTED Concur: OD/OSA EAD/OSA

NONE

INITIATED BY : PROJECT

APP

IT 6

NATURE OF PROPOSAL:

AN-W75 absorbent material will be installed on the inner surface of the System 15 radome between the antennas. 17 Pieces, 2.50 in. x 12.75 in., will be installed between the beads of the radome. One piece, 7.50 in. x 11.00 in., will be installed on the access door. The absorbent is 1 3/8 inch thick, self extinguishing, and weatherproofed with a neoprene coated nylon fabric. The absorbent complies with MIL-C-20696 and has a cut off point of 2.0 GC.

The absorbent will be bonded to the radome surface with a compatable cement recommended by the absorbent manufacturer.

Tests by the manufacturer of System 15 show that this type of installation will provide 70 db, or better, attenuation between antennas.

REASON FOR PROPOSAL:

System 15 was designed to operate with a minimum antenna isolation of 70 db. Tests conducted by the manufacturer of System 15 indicate that this isolation is not attained in the present System 15 installation. These tests also showed that AN-W75 absorbent material will provide the proper antenna isolation.

It is the Contractor's understanding that the manufacturer of System 15 is negotiating modifications to the system which will allow satisfactory operation with a minimum antenna isolation of 50 bd.

These modifications and the changes listed above will provide a "safety factor" of 20 db between the isolation provided and the isolation required for satisfactory operation.

Prepare and issue Service Bulletin Kits.